

### 1. LED Error Codes (For battery condition)

#### ⚠ WARNING

Incorrect reassembly may result in a risk of electric shock or fire. The following procedures are intended only to determine if a malfunction may exist in the charger.

#### ⚠ WARNING

To reduce the risk of electric shock, always disconnect the charger's AC cord set from AC power and its DC cord set plug from batteries before attempting any maintenance or cleaning.

#### ⚠ WARNING

Do not operate the charger if it is malfunctioning. Personal injury or property damage could result.

If any of the three red L.E.D.s blink, the charge cycle has terminated prematurely. An abnormal charging condition was detected and charging was stopped due to a Charge Error Condition.

Refer to the following Charge Error Table for a description of the possible failure or condition.

Condition	Power On	Error 1	Error 2
Battery Voltage High	OFF	OFF	BLINK
Battery Polarity Reversed	ON	OFF	OFF
Output Overload & Overheat	OFF	BLINK	BLINK
Excessive Charging Time	ON	OFF	ON
Excessive Discharge	ON	ON	ON

	Problem Description	Cause	Remedy
1	Charger does not start. No LEDs illuminate or blink when AC cord is connected.	No AC power to charger.	Ensure correct voltage at AC outlet. Ensure AC cord connections. Replace AC cord if damaged.
2	Charger does not start charging when DC cord set is plugged into the receptacle and the red power led is on.	Incorrect wiring or disconnection from DC cord, receptacle, and batteries. Battery voltage less than 24 volts.	Ensure polarity for wiring is correct from DC cord, receptacle, and batteries. Check battery pack voltage.
3	Charger runs longer than 20 hours.	Charger may be in "boosting" stage.	Confirm green LED illuminates after power LED is blinking (This indicates "boosting").

### WIRING DIAGRAM

